

Abstract

It is an object to obtain a highly efficient and low-cost single-phase motor and a hermetic compressor employing the motor by producing the motor in a form that allows a proper material layout, with securing a magnetic path of a coreback of a stator iron core. According to the present invention, in a single-phase motor having a stator including a stator iron core formed by laminating a plurality of electromagnetic steel sheets and provided with a slot and single-phase two-pole distributed windings composed of a main winding and an auxiliary winding contained in the slot, and a rotor placed through a gap on an inner circumference of the stator, at least five notches each having a roughly straight lined shape are provided on an outer circumference of the stator iron core, so that a quadrangle is formed by straight lines including four notches out of the at least five notches.